Management of hypernatremia

There are two main types;

1. Hypervolemic-most common

Causes:

- Iatrogenic
- Mineralocorticoid excess (Cushing's syndrome, Conn's syndrome, Congenital adrenal hyperplasia)
- High rennin states

2. Hypovolemic

- Renal loses-diuretics, glycosuria
- GI losses vomiting, diarrhoea
- Respiratory losses
- Burns
- Excessive sweating

Management

Treat underlying cause in all cases

Hypervolemic

- If serum sodium level >145meq/l,
- Use loop diuretics to promote sodium and water excretion
- Replace renal and insensible losses
- Correct body water deficits using the formula (0.6x weight in kg) x (serum Na/140) 1
- Patients in renal failure may require haemofiltration or haemodialysis

Hypovolemic

- Correct volume deficit as determined by urine output or CVP
- If serum Na > 145 meq/l, calculate water deficit using the formula (0.6 x weight in kg) x (serum Na/140) 1
- Add insensible losses to the deficit
- Aim to correct within 24 to 48 hours